FIG.1

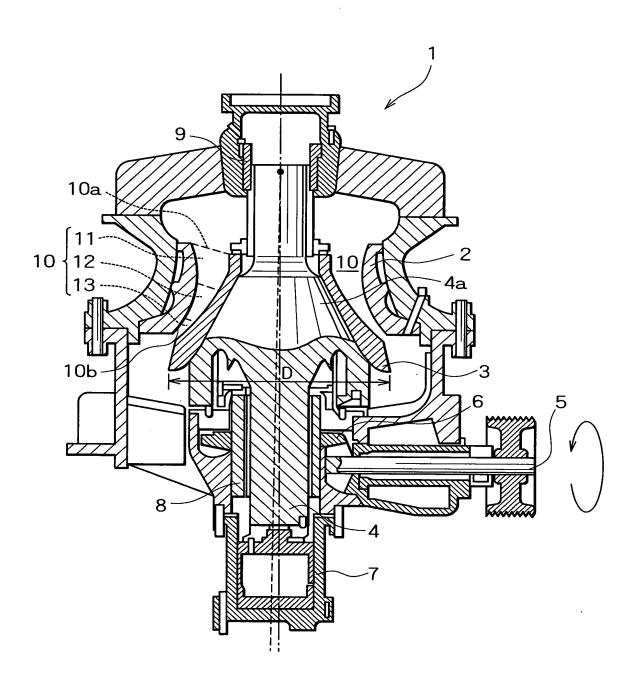
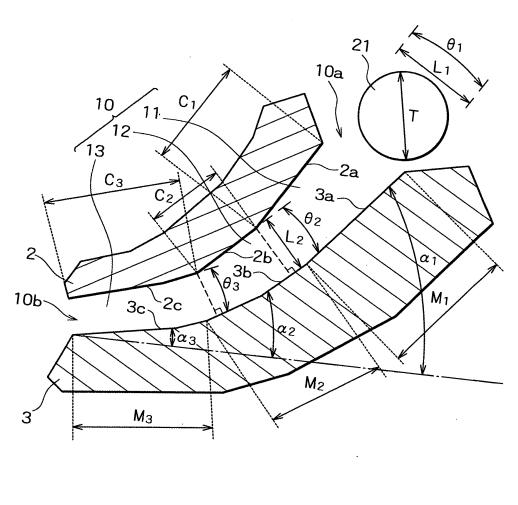
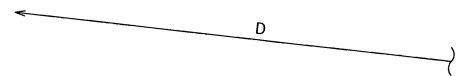


FIG.2





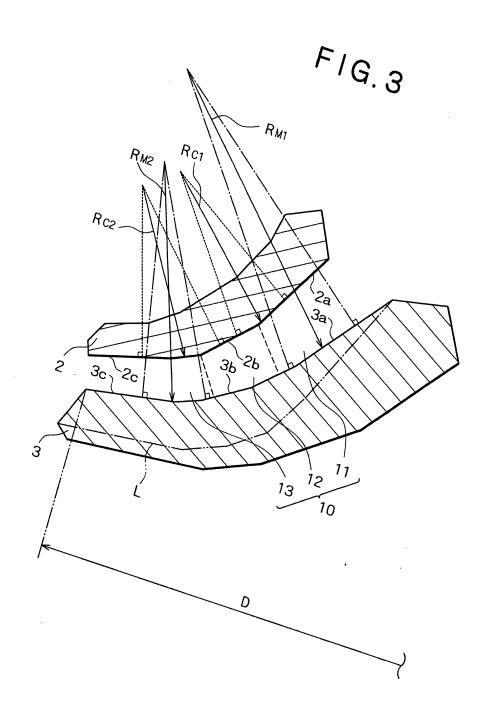


FIG.4

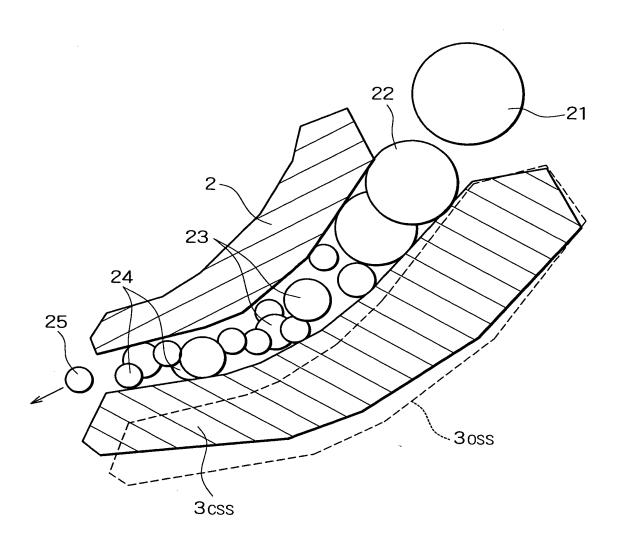
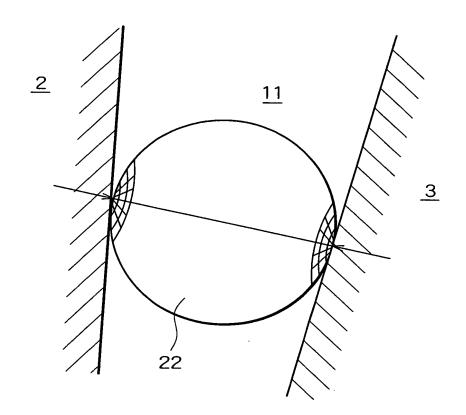
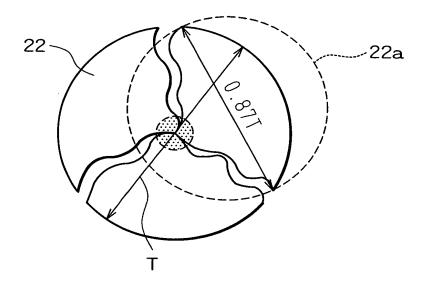


FIG.5



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## FIG.6A



## FIG.6B

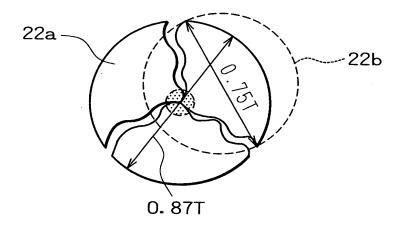


FIG.6C

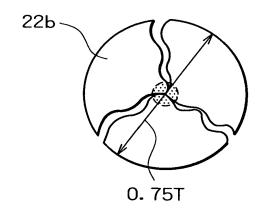
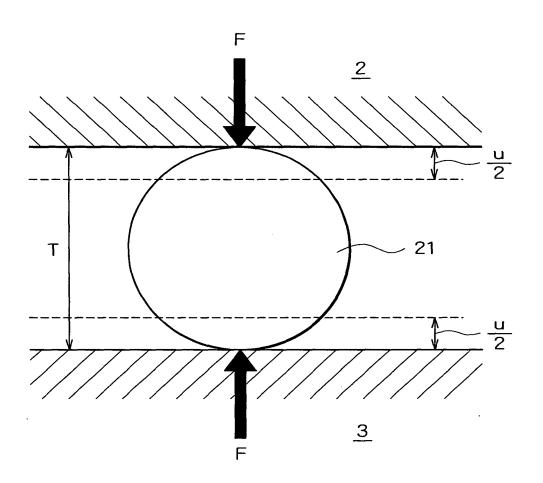


FIG.7

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FIG.8

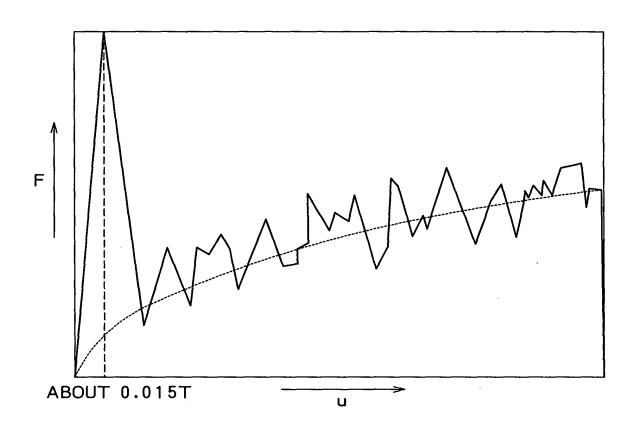


DIAGRAM SHOWING THE RELATIONSHIP BETWEEN AN APPLIED LOAD AND THE DISPLACEMENT IN THE SINGLE PARTICLE FRACTURE

FIG.9

